

AMENDMENTS TO THE CLAIMS

Please amend claims 1, 2, and 4 and add claims 5-18 as set forth below:

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~~1. (CURRENTLY AMENDED) A fingerprint collating device for collating a user's fingerprint with registered fingerprint information to effect personal authentication, said device comprising:~~

~~an external computer;~~

~~a fingerprint reader for reading said fingerprint to create read fingerprint information, and to create read history information indicating that said read fingerprint information has been created;~~

~~a read history storage for storing said read history information and executing a control program when instructed by the external computer; and~~

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~~a collator collating said read fingerprint information with said registered fingerprint information to effect personal authentication and output a result of authentication when said read history information is stored in said read history storage and the control program is executed.~~

2. (CURRENTLY AMENDED) The fingerprint collating device according to claim 1,

wherein said collator effects said personal authentication by using said registered fingerprint information supplied from an external storage medium, wherein said registered fingerprint information includes a finger print template that corresponds to an owner of the external storage medium.

3. (ORIGINAL) The fingerprint collating device according to claim 1 further comprising:

registered fingerprint information storage for storing said registered fingerprint information, in which said collator effects said personal authentication by using said registered fingerprint information stored in said registered fingerprint information storage.

4. (CURRENTLY AMENDED) A fingerprint collating method for collating a user's fingerprint with registered fingerprint information to effect personal authentication, said method comprising the steps of:

reading said fingerprint to create read fingerprint information, and to create read history information indicating that said read fingerprint information has been created;

storing said read history information in read ~~hysteresis~~ history storing means; and
executing a control program in said read history storage means when an instruction signal is received from an external computer;

collating said read fingerprint information with said registered fingerprint information to effect personal authentication and output a result of authentication when said read history information is stored in said read history storing means and said read history storage means executes the control program.

5. (NEW) A fingerprint collating system comprising:
means for generating a collation instruction and an index number;
means for illuminating a bottom face of a prism based on the collation instruction;
means for generating a fingerprint image of a user when an air layer exists between a finger of a user and a top face of the prism;
means for setting a fingerprint accepting flag in a first memory unit to indicate that a fingerprint image has been generated;
means for reading a fingerprint template associated with the index number from a second memory unit; and
means for collating the fingerprint image and the fingerprint template when the fingerprint image of the user is generated and the fingerprint accepting flag is set.

6. (NEW) The method of claim 5, further comprising:
means for converting the fingerprint image to a digital signal.

7. (NEW) The method of claim 5, further comprising:
~~means for resetting the fingerprint accepting flag when the collation between the fingerprint image and the fingerprint template has been completed.~~

8. ~~(NEW) The method of claim 5, further comprising:~~
means for outputting a result of the collation to the personal computer.
9. (NEW) The method of claim 5, wherein the second memory unit is an IC card.
10. (NEW) A method for collating a fingerprint in a fingerprint collating system that includes a personal computer and a collating unit, the method comprising:
generating a collation instruction and an index number;
illuminating a bottom face of a prism based on the collation instruction;
generating a fingerprint image of a user when an air layer exists between a finger of a user and a top face of the prism;
setting a fingerprint accepting flag in a first memory unit to indicate that a fingerprint image has been generated;
reading a fingerprint template associated with the index number from a second memory unit; and
collating the fingerprint image and the fingerprint template when the fingerprint image of the user is generated and the fingerprint accepting flag is set.
11. (NEW) The method of claim 10, further comprising:
converting the fingerprint image to a digital signal.
12. (NEW) The method of claim 10, further comprising:
resetting the fingerprint accepting flag when the collation between the fingerprint image and the fingerprint template is complete.
13. (NEW) The method of claim 10, further comprising:
outputting a result of the collation to the computer.

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14. (NEW) ~~A system for collating a fingerprint of a user, comprising:~~

a computer that generates a fingerprint collation instruction and an index number,
wherein the computer has a first memory unit;

a prism that generates a fingerprint image of a user when the collation instruction
is received from the computer and an air layer exists between a portion a finger of the user and a
top face of the prism; and

a collating unit that retrieves a fingerprint template of the user from a second
memory unit based on the index number and collates the fingerprint image of the user with the
fingerprint template when a fingerprint accepting flag is set in the first memory unit.

15. (NEW) The system of claim 14, wherein the fingerprint accepting flag is
set when the fingerprint image is generated.

16. (NEW) The system of claim 14, wherein the fingerprint accepting flag is
reset when the collation of the fingerprint image and the fingerprint template is complete.

17. (NEW) The system of claim 14, wherein the collating unit sends the
collation result to the computer.

18. (NEW) The system of claim 14, wherein the second memory unit is an IC
card